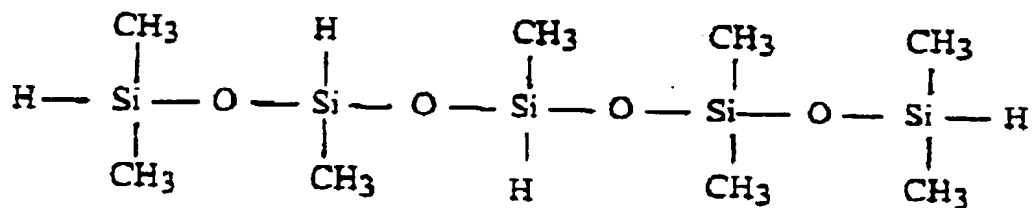


50B
A2

- $$\text{X} - \left[\begin{array}{c} \text{W} \\ | \\ \text{Si} \\ | \\ \text{W} \end{array} \right]_n - \text{O} - \left[\begin{array}{c} \text{W} \\ | \\ \text{Si} \\ | \\ \text{W} \end{array} \right]_m - \text{X}$$

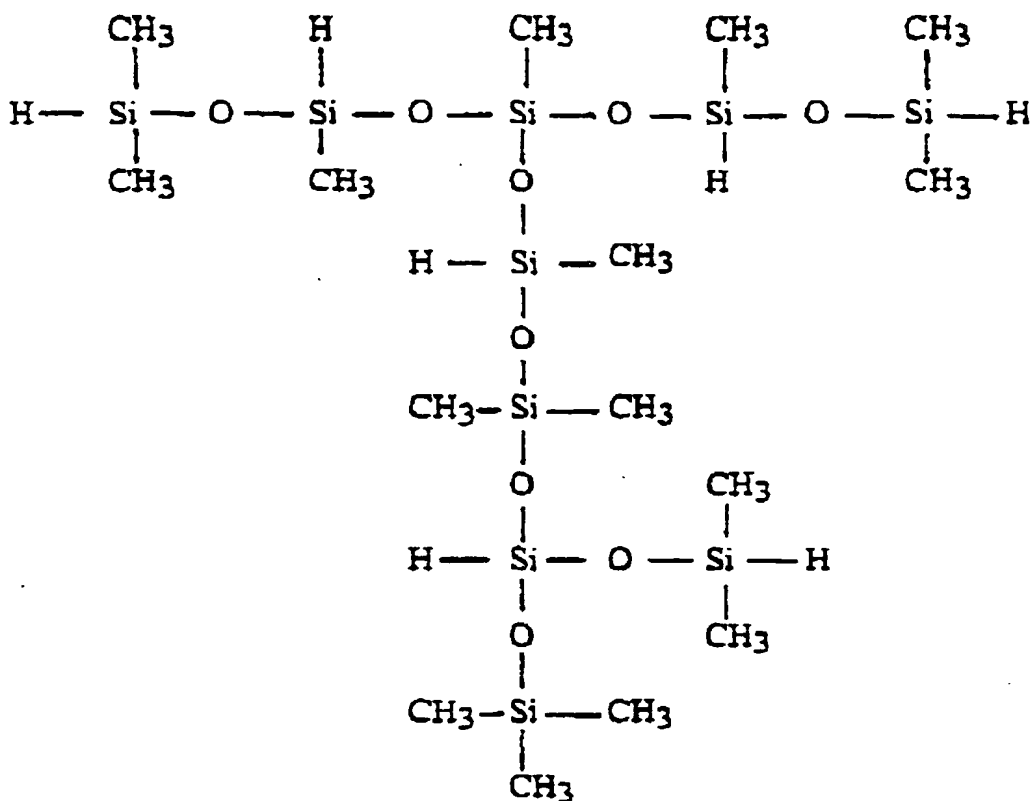
3. The copolymer of claim 2 wherein said polysilane of formula I is a polyhydrosiloxane of the formula:



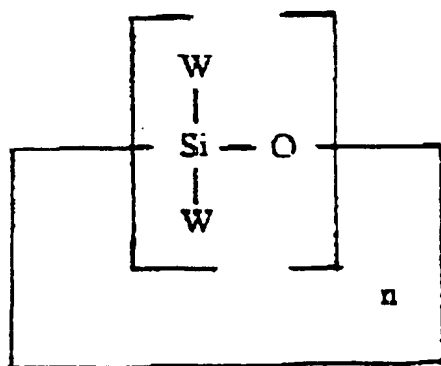
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5. The copolymer of claim 4 wherein said polysilane of Formula II is a branched polyhydrosiloxane of the formula:



6. The copolymer of claim 1 wherein said silane polymer is a polysilane of the formula III:

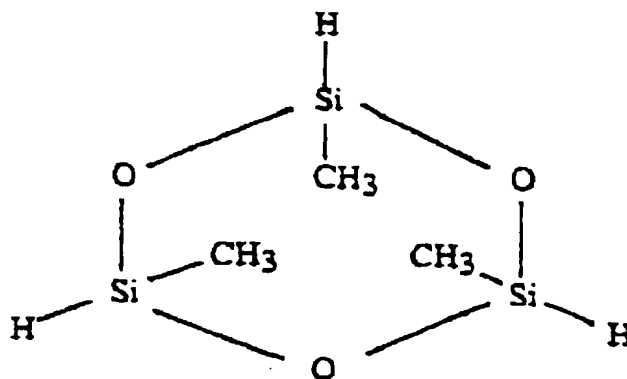


III

wherein W is an organic or inorganic group selected such that the polysilane contains at least two Si-H groups and sufficient to provide a branched structure, and n is the number of repeating groups in the chain.

7. The copolymer of claim 6 wherein said polysilane

is a cyclic polyhydrosiloxane of the formula:



8. The copolymer of claim 1 wherein said silicone polymer is a methylhydrosiloxane-dimethylsiloxane random copolymer (MDMS).

9. The copolymer of claim 8 wherein the ratio of PP to MDMS is such that the copolymer contains free Si-H groups.

10. The copolymer of claim 9 which is coupled, through free Si-H groups, to an inorganic filler, inorganic surface, a hydroxy-containing polymer, vinyl-containing polymer or other polymer containing functional groups reactive with free Si-H.

11. The copolymer of claim 10 wherein said coupling is effected by a hydrosilylation reaction or a dehydrogenerative coupling reaction.

12. The copolymer of claim 9 wherein the free Si-H groups are cross-linked.

13. The copolymer of claim 12 wherein free Si-H groups are connected into a Si-OH group by a metal-catalyzed reaction with water and subsequently dehydrogenatively coupling to a second Si-H group.

14. The copolymer of claim 12 wherein Si-H groups are reacted by dehydrogenative coupling.

N 15. The copolymer of claim 8 which is coupled to metallic, glass, ceramic or other vitreous surface.

